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ments. The entire control of the Institute will be in the hands of Professor James C. Egbert, the Director of Extension Teaching, who will be assisted by Milton J. Davies, who was secretary to President George E. Vincent, of the Chautauquan Institution, and later was supervisor of lectures and concerts for the Brooklyn Institute of Arts and Sciences. He leaves the position of educational director of the Brooklyn Central branch of the Y. M. C. A. The fee for membership in the institute is \$10 annually and the first thousand members will not have to pay a registration fee. After that the registration fee of \$5 will have to be paid, once only, however. A membership ticket will admit one person to the day lectures during the entire season, and two to the night lectures. For certain of the more costly events on the program, such as special concerts, membership will be given a reduced rate of admission.

SCIENTIFIC NOTES AND NEWS

THE National Academy of Sciences will hold on April 22, 23 and 24, an adjourned meeting to celebrate the semi-centennial anniversary of its foundation. The academy held its first meeting in New York on April 22, 1863. In addition to the American speakers there will be three speakers from Europe, Professor J. C. Kapteyn, of the Astronomical Laboratory of Groningen, Holland, on "The Structure of the Universe"; Professor Arthur Schuster, secretary of the Royal Society of London, on "International Cooperation in Research"; and Professor Theodor Boveri, of Würzburg, on "The Material Basis of Heredity."

THE Oxford University convocation has voted to confer the degree of doctor of science on Dr. Josiah Royce, professor of the history of philosophy at Harvard University, who has been giving a course of lectures at Manchester College, Oxford.

THE University of Calcutta has conferred the degree of doctor of science on Dr. A. R. Forsyth, F.R.S., who has given a course of mathematical lectures at the university.

THE Helmholtz medal of the Berlin Academy of Sciences has been awarded to Professor S. Schwendener, of the Berlin University, for his researches in plant physiology.

At the annual meeting of the Royal Astronomical Society on February 14, the gold medal of the society was presented to M. Henri Delandre, of the Meudon Solar Observatory. Officers were elected as follows: *President*, Major E. H. Hills, C.M.G., F.R.S.; *Vice-presidents*, Sir W. H. M. Christie (late astronomer royal), Dr. F. W. Dyson, Mr. A. R. Hinks and Professor H. F. Newall. Mr. Knobel was reelected as treasurer. Mr. A. S. Eddington and Mr. A. Fowler were elected secretaries, and Sir David Gill was reelected to the office of foreign secretary.

At the anniversary meeting of the Geological Society of London officers for the ensuing year were appointed as follows: *President*, Dr. A. Strahan, F.R.S.; *Vice-presidents*, Professor E. J. Garwood, M.A., Mr. R. D. Oldham, F.R.S. Mr. Clement Reid, F.R.S. and Professor W. W. Watts, F.R.S.; *Secretaries*, Dr. A. Smith Woodward, F.R.S. and Mr. H. H. Thomas; *Foreign Secretary*, Sir Archibald Geikie, President R.S.; *Treasurer*, Mr. Bedford McNeill.

THE Franklin Institute, Philadelphia, acting through its committee on science and the arts, recently awarded the Elliott Cresson gold medal, the highest in the gift of the institute, to the following gentlemen:

Charles Proteus Steinmetz, A.M., Ph.D., of Schenectady, New York, in recognition of successful application of analytical method to the solution of numerous problems of first practical importance in the field of electrical engineering.

Emile Berliner, of Washington, D. C., in recognition of important contributions to telephony and to the science and art of sound-reproduction.

Isam Randolph, D.Eng., of Chicago, Ill., in recognition of distinguished achievement in the field of civil engineering.

John William Strutt, Baron Rayleigh, P.C., J.P., D.C.L., LL.D., F.R.S., Hon.C.E., Sc.D., of Witham, Essex, England, in recognition of extended researches of signal importance in physical science.

Sir William Ramsay, K.C.B., LL.D., D.Sc., M.D., Ph.D., F.R.S., F.C.S., of London, England, in recognition of numerous discoveries of far-reaching importance in the science of chemistry.

Emil Fischer, Ph.D., M.D., D.Sc., F.R.S., of Berlin, Germany, in recognition of numerous contributions of fundamental importance to the science of organic and biological chemistry.

THE annual dinner of the Alumni Association of Stevens Institute of Technology, held on February 14 at the Hotel Astor, took the form of a testimonial to Dr. Humphreys on the tenth anniversary of his inauguration as president of Stevens. The regard of the alumni was evidenced by the presentation of a model of the historic Stevens Castle which was recently purchased by the institute.

DR. JAMES LAW, emeritus professor of veterinary medicine at Cornell University, was seventy-five years old on February 13. In the afternoon Acting President Crane and all the members of the faculty of the Veterinary College called upon Dr. Law at his home to congratulate him.

THE senate on February 20 voted to grant permission to Col. W. C. Gorgas of the Isthmian Canal Commission to enter the service of the Republic of Ecuador for the purpose of cleaning up the port of Guayaquil.

It is announced that the Canadian government will grant Mr. Stefansson the sum of £15,000 towards his expedition into unexplored territory north of the Canadian mainland. Mr. Stefansson will take with him Canadian students with scientific knowledge, and the expedition will be directly under the Canadian Geological Survey. He expects to be absent three winters and four summers.

DR. H. MONMOUTH Smith, since 1902 professor of chemistry at Syracuse University, has accepted a research position in the nutrition laboratory of the Carnegie Institution.

MR. LANCASTER D. BURLING, assistant curator of the division of invertebrate paleontology in the United States National Museum, has resigned to accept the position of invertebrate paleontologist in the Geological Survey of Canada.

MR. ROBERT ANDERSON has resigned as geologist of the United States Geological Survey and will engage in professional work, in partnership with Mr. A. C. Veatch, specializing in the geology of petroleum.

MR. DAVID HOOPER, curator of the Industrial Section of the Indian Museum, Calcutta, has been appointed economic botanist to the Botanical Survey of India.

PROFESSOR BIER, of the University of Berlin, who has been quoted as having spoken favorably of Dr. Friedmann's treatment for tuberculosis, has given out a statement which concludes as follows: "I must therefore publicly protest against the misuse of my name for the recommendation of a remedy of whose effectiveness I have so far no evidence. I hope that this statement may find its way into the foreign press as quickly and as widely as my alleged recommendation of the treatment. It should also relieve me of the burden of constantly answering letters and stating that I have seen as yet no evidence of any unusual curative action of Friedmann's treatment."

A JOINT meeting of the Washington Academy of Sciences and the Philosophical Society of Washington was held on March 1, in the assembly hall of the Cosmos Club, when an address was given by the Right Honorable James Bryce on "The Physical Aspects of Australia and New Zealand."

PROFESSOR EDWIN G. CONKLIN, of Princeton University, will lecture before the Harvey Society at the New York Academy of Medicine on March 8, his subject being, "The Size of Organisms and their Constituent Parts in Relation to Longevity, Senescence and Rejuvenescence."

N. H. DARTON, geologist, Bureau of Mines, gave recently two lectures on applied geology to the advanced geological students at Columbia University. The subjects were "Construction of Structure Maps of Coal Basins" and "Construction of Maps showing Artesian Water Conditions."

PROFESSOR JOHN B. WATSON, of the Johns Hopkins University, is giving at Columbia a course of eight lectures on animal behavior.

The lectures are given on Monday and Tuesday afternoons at four o'clock.

PROFESSOR KARL BEZOLD, of the University of Heidelberg, is lecturing on ancient oriental art at Chicago, Princeton and other universities.

PROFESSOR J. F. KEMP, of Columbia University, lectured on the Catskill Aqueduct of New York and the application of geology to great engineering enterprises, at the Pennsylvania State College on February 25. After the lecture a banquet was tendered Dr. Kemp by the Research Club, consisting of the local members of the Sigma Xi.

THE forty-fourth annual presidential address was given on February 13 by Albert McCalla, Ph.D., before the State Microscopical Society of Illinois at Chicago, the subject being "Microscopic Research as an aid to Industrial Arts and Allied Sciences."

ON February 25 Professor H. H. Turner began a course of three lectures at the Royal Institution on "The Movements of the Stars"; and on Thursday, March 6, Mr. W. B. Hardy delivered the first of two lectures on "Surface Energy." The Friday evening discourse on February 28 was delivered by the Hon. R. J. Strutt on "Active Nitrogen," and on March 7 by Mr. C. T. R. Wilson on "The Photography of the Paths of Particles ejected from Atoms."

DR. PHILIP HANSON HISS, professor of bacteriology in the College of Physicians and Surgeons, Columbia University, the author of important researches on immunity and infectious diseases, died on February 27, aged forty-four years.

CHARLES W. HOOKER, Ph.D., entomologist of the Federal Experiment Station and plant inspector of the Port of Mayaguez, Porto Rico, died on February 12, at the age of thirty, following an attack of appendicitis. Dr. Hooker, who was a graduate of Amherst College in the class of 1906, received his doctor's degree in entomology at the Massachusetts Agricultural College in 1909.

SIR WILLIAM WHITE, F.R.S., the distinguished naval architect, for many years chief

constructor of the British navy, president of the British Association for the Advancement of Science for the next annual meeting, died on February 28, aged sixty-eight years.

UNIVERSITY AND EDUCATIONAL NEWS

By the will of John Fritz, the iron master, his residuary estate amounting to about \$150,000 is given to Lehigh University primarily as an endowment fund for the maintenance of the Fritz Engineering and Testing Laboratory. It is also announced that Mr. Charles L. Taylor, of Pittsburgh, has given Lehigh University a gift for a large gymnasium and a stadium.

By the will of the late Mr. C. C. Weld, of Newport, R. I., the Boston Lying-In Hospital receives \$125,000, and the Boston Dispensary \$100,000, while the residuary estate, valued at nearly \$4,000,000, is in case the daughter of the decedent dies without issue, to be divided between the Massachusetts General Hospital and the Massachusetts Institute of Technology.

PLANS for the new electrical laboratory of Harvard University, which is to be built between the Jefferson Physical Laboratory and the Peirce Hall, are nearing completion, and it is expected that actual work of construction will begin early in the spring. The building will cost about \$60,000 and is an anonymous gift to the university.

APPLICATIONS for the Kahn Foundation for the Foreign Travel of American Teachers should be handed to the secretary of the foundation, Sub-station 84, New York City. The next fellows will be selected by the trustees early in May and will begin their travels on July 1, 1913. The reports of the first appointees, Professor Francis Daniels, of Wabash College, and Professor J. H. T. McPherson, of the University of Georgia, are now in the printer's hands. Two fellows are at present abroad: Professor Ivan M. Linforth, of the University of California, is about to leave Germany for the Orient; and Professor William E. Kellicott, of Goucher College, is at present in the British Isles and will shortly